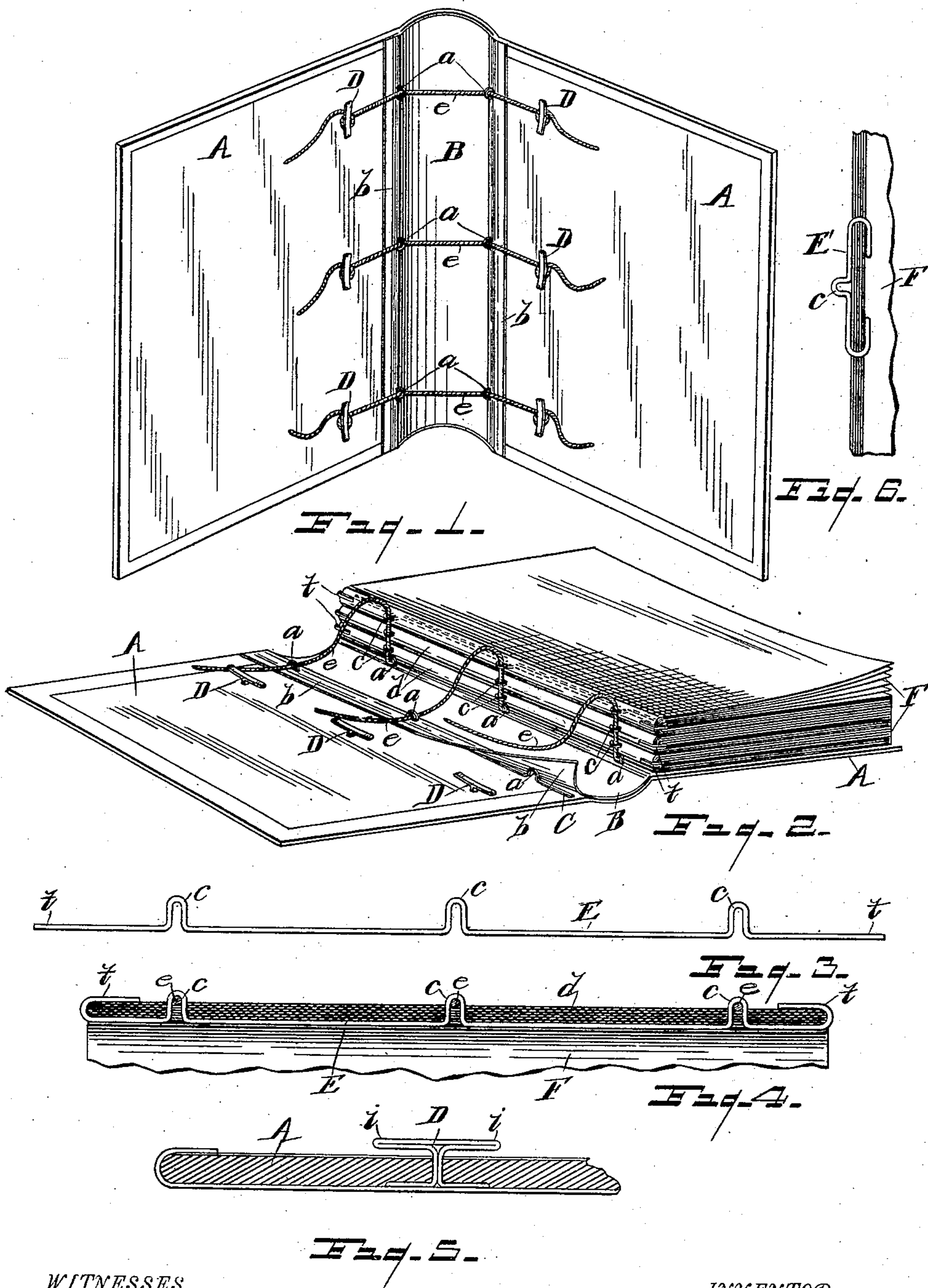


(No Model.)

G. A. PIPER.
TEMPORARY BINDER.

No. 471,803.

Patented Mar. 29, 1892.



WITNESSES

B. A. Wheeler
E. A. Wheeler

INVENTOR

G. A. Piper
Roscoe B. Wheeler
Attorney.

UNITED STATES PATENT OFFICE.

GUSTAV A. PIPER, OF PITTSBURG, PENNSYLVANIA.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 471,803, dated March 29, 1892.

Application filed December 6, 1890. Serial No. 373,975. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV A. PIPER, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Manifold Binders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in manifold binders especially designed for binding sheet-music, papers, manuscript, and like articles; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which are pointed out particularly in the claims.

The object of the invention is to provide means for readily and securely binding in a suitable cover or portfolio a number of sheets or folios of music, and in such manner as to enable any one of the folios or pieces of music to be easily removed when desired. This object is attained by the arrangement shown in the accompanying drawings, in which—

Figure 1 is an inner face view of the covers, showing the binding-cord. Fig. 2 is a perspective view showing the manner of binding a series of folios within the covers. Fig. 3 represents a metal strand adapted to be secured in the folio to be bound in the covers, said strand having a series of eyelets formed therein that receive the binding-cord, the parts being integral. Fig. 4 is a longitudinal section through a series of folded leaves, showing the eyeleted strand secured therein. Fig. 5 is an enlarged detail, in section, showing the manner of securing the binding-posts in the inner face of the cover, to which the ends of the binding-cords are attached. Fig. 6 is a sectional detail showing the manner of attaching the eyelets separately to the folio instead of the continuous eyeleted strand shown in Figs. 3 and 4.

Referring to the letters of reference, A indicates the covers of the binder or portfolio, which are united by a flexible back B. Ex-

tending along the inner edge of the covers on each side of the back B is a flat metal strand C, (shown in Fig. 2,) having a series of eyelets *a* formed therein, said strand being secured in place by the lining-strip *b* of the back, which is placed over the strand and cemented to the inner face of the cover, the eyelets *a* protruding through said strip.

D indicates a series of binding-posts set in the inner face of the covers A, one opposite each of the eyelets *a*. Said posts afford means for securing the ends of the binding-cord, as hereinafter set forth.

E indicates a metal strand, substantially like C, having formed therein a series of eyelets *c* at such distance apart as to register with the eyelets *a* of the strand C, secured to the inner face of the covers A. Said strand E is adapted to be placed in the fold of the sheet-music or folio F to be bound, the eyelets *c* extending through the folded portion or back *d* thereof, the strand being secured in place by bending its end portions *t* over onto the back *d* of the folio F, as clearly shown in Figs. 2 and 4, or through the folds of paper, as shown in Fig. 6.

When it is desired to bind a number of folios in the covers A, the eyeleted strands E are secured in said folios, as above described, so that when placed together the eyelets *c* of the folios will register with one another and also with the eyelets *a* in said covers. The binding-cord *e* is then passed through the eyelets *c* of the series of folios, when the respective ends thereof are passed through the eyelets *a* of the covers and are secured by winding them around the posts D, as shown in Figs. 1 and 2, whereby the folios F are securely bound within the covers A and in such manner that any one of the folios may be readily removed by detaching the ends of the cords *e* and withdrawing them from the eyelets *a*, which may be accomplished from either side of the folio-binder.

It will be seen on looking at Fig. 5 that the binding-posts D are formed with horizontal arms *i* extending from the vertical portion thereof, which being made of spring metal retain the binding-cord by spring-tension when drawn under the ends of said arms in winding it about the post D, thereby forming a simple but perfect fastener for the ends of

the cord and which enables the cord to be readily unfastened when desired.

When the covers A have been filled, the folios may be permanently bound therein by removing the posts D and securing the binding-cords *e* by cementing a strip over the ends thereof, as will be readily understood.

Fig. 6 illustrates the employment of a separate strand *E'* for each eyelet *c*, said strand being secured by clinching its ends through the folded sheets F, as shown. This form may be used, if desired, instead of the continuous eyeleted strand E.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the covers and back formed integral, the eyeleted metal strands secured within the back, the eyelets projecting through the inner face thereof, the series of binding-posts anchored in the inner face of the covers, the binding-cords having their end portions wound about the binding-posts, their body portions passing through the eyelets of the back, and a folio having eyelets

registering with the eyelets of the back and adapted to be strung upon the cords crossing the back of the covers, for the purposes set forth.

2. In a folio-binder, the following combined elements: the covers and back formed integral, the eyelets secured to covers and projecting through the inner face and along each edge of the back, the series of spring-actuated binding-posts mounted on the inner face of each cover, the folio having an eyeleted strand the eyes of which project through the fold and register with the eyelets of the back, the ends of said strand being bent over onto the fold of the folio to retain it in place, and the binding-cord passing through the eyelet of the folio and the corresponding eyelets of the back, the end portions of the cord being attached to the binding-posts.

In testimony whereof I affix my signature in presence of two witnesses.

GUSTAV A. PIPER.

Witnesses:

T. O. MALLOCH,
J. B. RICHARDS.